

SEQUENCE LISTING

<110> De Leys, Robert

<120> PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING
TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR USE IN
A PROCESS FOR DETERMINATION OF ANTIBODIES OF
BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT
EPITOPES, A PROCESS FOR PREPARING THEM AND COMPOSITIONS
CONTAINING THEM

<130> 2752-11

<140> 09/576,824

<141> 2000-05-23

<150> 08/723,425

<151> 1996-09-30

<140> 09/146,028

<141> 1993-11-22

<150> PCT/EP93/00517

<151> 1993-03-08

<150> EP 92400598.6

<151> 1992-03-06

<160> 600

<170> PatentIn Ver. 2.1

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Tyr Ala Thr Gly Glu Ile Ile Gly Xaa
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Gln Arg Glu Lys Arg Xaa
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His Ser Gln Pro Ile Asn Lys Xaa
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Leu Leu Tyr Pro Ser Leu Ala Xaa
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His Val Leu Tyr Ser Pro Xaa
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Leu Gly Ser Arg Ser Arg Arg Xaa
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Ser Gln Leu Pro Pro Thr Ala Pro Pro Leu Leu Pro His Ser Asn Leu
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Asp His Ile Leu Glu Xaa
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Glu Gln Gly Gly Leu Cys Lys Ala Leu Gln Glu Gln Cys Arg Phe Pro
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Pro Gln Ile Pro Pro Pro Tyr Val Glu Pro Thr Ala Pro Gln Val Leu
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Asn Asp Pro Xaa
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Thr Gln Pro Pro Pro Thr Ser Pro Pro Leu Val His Asp Ser Asp Leu
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Glu His Val Leu Thr Xaa
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His Val Leu Tyr Thr Pro Asn Ile Ser Ile Pro Gln Gln Thr Ser Ser
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Arg Thr Ile Leu Phe Pro Ser Xaa
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His Val Pro Pro Pro Tyr Val Glu Pro Thr Thr Thr Gln Cys Phe Xaa
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Asn Arg Arg Pro Gln Xaa
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Val Lys Phe Pro Gly Xaa
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Gly Gln Ile Val Gly Xaa
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Thr Ser Glu Arg Ser Xaa
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Val Arg Ala Thr Arg Xaa
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Pro Ile Pro Lys Val Xaa
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Arg Pro Glu Gly Arg Xaa
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Trp Ala Gln Pro Gly Xaa
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Asn Glu Gly Cys Gly Xaa
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Arg Arg Ala Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg
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Arg Gln Pro Ile Pro Lys Val Arg Arg Xaa
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Glu Glu Cys Ser Gln Xaa
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Leu	Pro	Tyr	Ile	Glu	Xaa
				20	

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1				5				10						15	

Gly	Met	Met	Leu	Ala	Xaa
				20	

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Xaa	Ser	Gln	His	Leu	Pro	Tyr	Ile	Glu	Gln	Gly	Met	Met	Leu	Ala	Glu
1				5				10						15	

Gln	Phe	Lys	Gln	Lys	Xaa
				20	

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Leu Gly Leu Leu Gln Xaa
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Ala Ser Arg Gln Ala Xaa
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Val Ile Ala Pro Ala Xaa
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Phe Lys Gln Lys Ala Leu Gly Leu Leu Gln Thr Ala Ser Arg Gln Ala
20 25 30

Xaa

<210> 58
<211> 22
<212> PRT
<213> Hepatitis C virus

<220>
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<223> modified site

<400> 58

Xaa	Gly	Glu	Gly	Ala	Val	Gln	Trp	Met	Asn	Arg	Leu	Ile	Ala	Phe	Ala
1				5				10						15	

Ser	Arg	Gly	Asn	His	Xaa
			20		

<210> 59

<211> 22

<212> PRT

<213> Hepatitis C virus

<220>

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<222> (22)

<223> modified site

<400> 59

Xaa	Glu	Asp	Glu	Arg	Glu	Ile	Ser	Val	Pro	Ala	Glu	Ile	Leu	Arg	Lys
1				5				10						15	

Ser	Arg	Arg	Phe	Ala	Xaa
			20		

<210> 60

<211> 22

<212> PRT

<213> Hepatitis C virus

<220>

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<222> (1)

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<222> (22)

<223> modified site

<400> 60

Xaa	Leu	Arg	Lys	Ser	Arg	Arg	Phe	Ala	Gln	Ala	Leu	Pro	Val	Trp	Ala
1				5				10						15	

Arg	Pro	Asp	Tyr	Asn	Xaa
			20		

<210> 61
<211> 22
<212> PRT
<213> Hepatitis C virus

<220>
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<400> 61
Xaa Val Trp Ala Arg Pro Asp Tyr Asn Pro Pro Leu Val Glu Thr Trp
1 5 10 15

Lys Lys Pro Asp Tyr Xaa
20

<210> 62
<211> 22
<212> PRT
<213> Hepatitis C virus

<220>
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<400> 62
Xaa Glu Thr Trp Lys Lys Pro Asp Tyr Glu Pro Pro Val Val His Gly
1 5 10 15

Cys Pro Leu Pro Pro Xaa
20

<210> 63
<211> 22
<212> PRT
<213> Hepatitis C virus

<220>
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<400> 63
Xaa Val His Gly Cys Pro Leu Pro Pro Pro Lys Ser Pro Pro Val Pro
1 5 10 15

Pro Pro Arg Lys Lys Xaa
20

<210> 64
<211> 39
<212> PRT
<213> Hepatitis C virus

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<400> 64
Xaa Glu Asp Glu Arg Glu Ile Ser Val Pro Ala Glu Ile Leu Arg Lys
1 5 10 15

Ser Arg Lys Ser Arg Arg Phe Ala Gln Ala Leu Pro Val Trp Ala Arg
20 25 30

Pro Asp Tyr Asp Tyr Asn Xaa
35

<210> 65
<211> 36
<212> PRT
<213> Hepatitis C virus

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<223> modified site

<400> 65

Xaa Gly Glu Thr Tyr Thr Ser Gly Gly Ala Ala Ser His Thr Thr Ser
1 5 10 15

Thr Leu Ala Ser Leu Phe Ser Pro Gly Ala Ser Gln Arg Ile Gln Leu
20 25 30

Val Asn Thr Xaa
35

<210> 66

<211> 24

<212> PRT

<213> Hepatitis C virus

<220>

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<222> (24)

<223> modified site

<400> 66

Xaa Gly Glu Thr Tyr Thr Ser Gly Gly Ala Ala Ser His Thr Thr Ser
1 5 10 15

Thr Leu Ala Ser Leu Phe Ser Xaa
20

<210> 67

<211> 26

<212> PRT

<213> Hepatitis C virus

<220>

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<222> (26)

<223> modified site

<400> 67

Xaa Ser His Thr Thr Ser Thr Leu Ala Ser Leu Phe Ser Pro Gly Ala
1 5 10 15

Ser Gln Arg Ile Gln Leu Val Asn Thr Xaa
20 25

<210> 68
<211> 36
<212> PRT
<213> Hepatitis C virus

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<223> modified site

<400> 68
Xaa Gly His Thr Arg Val Ser Gly Gly Ala Ala Ala Ser Asp Thr Arg
1 5 10 15

Gly Leu Val Ser Leu Phe Ser Pro Gly Ser Ala Gln Lys Ile Gln Leu
20 25 30

Val Asn Thr Xaa
35

<210> 69
<211> 24
<212> PRT
<213> Hepatitis C virus

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<400> 69
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1 5 10 15

Gly Leu Val Ser Leu Phe Ser Xaa
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<210> 70

<211> 26
<212> PRT
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<400> 70
Xaa Ala Ser Asp Thr Arg Gly Leu Val Ser Leu Phe Ser Pro Gly Ser
1 5 10 15

Ala Gln Lys Ile Gln Leu Val Asn Thr Xaa
20 25

<210> 71
<211> 36
<212> PRT
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<400> 71
Xaa Gly His Thr Arg Val Thr Gly Gly Val Gln Gly His Val Thr Cys
1 5 10 15

Thr Leu Thr Ser Leu Phe Arg Pro Gly Ala Ser Gln Lys Ile Gln Leu
20 25 30

Val Asn Thr Xaa
35

<210> 72
<211> 24
<212> PRT
<213> Hepatitis C virus

<220>
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<400> 72
Xaa Gly His Thr Arg Val Thr Gly Gly Val Gln Gly His Val Thr Cys
1 5 10 15

Thr Leu Thr Ser Leu Phe Arg Xaa
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<210> 73
<211> 26
<212> PRT
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<400> 73
Xaa Gly His Val Thr Cys Thr Leu Thr Ser Leu Phe Arg Pro Gly Ala
1 5 10 15

Ser Gln Lys Ile Gln Leu Val Asn Thr Xaa
20 25

<210> 74
<211> 36
<212> PRT
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<400> 74

Xaa Gly His Thr His Val Thr Gly Gly Arg Val Ala Ser Ser Thr Gln
 1 5 10 15
 Ser Leu Val Ser Trp Leu Ser Gln Gly Pro Ser Gln Lys Ile Gln Leu
 20 25 30
 Val Asn Thr Xaa
 35

<210> 75
 <211> 24
 <212> PRT
 <213> Hepatitis C virus

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<400> 75
 Xaa Gly His Thr His Val Thr Gly Gly Arg Val Ala Ser Ser Thr Gln
 1 5 10 15
 Ser Leu Val Ser Trp Leu Ser Xaa
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<210> 76
 <211> 26
 <212> PRT
 <213> Hepatitis C virus

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<400> 76
 Xaa Ala Ser Ser Thr Gln Ser Leu Val Ser Trp Leu Ser Gln Gly Pro
 1 5 10 15
 Ser Gln Lys Ile Gln Leu Val Asn Thr Xaa
 20 25

<210> 77
<211> 36
<212> PRT
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<400> 77
Xaa Gly Asp Thr His Val Thr Gly Gly Ala Gln Ala Lys Thr Thr Asn
1 5 10 15
Arg Leu Val Ser Met Phe Ala Ser Gly Pro Ser Gln Lys Ile Gln Leu
20 25 30
Ile Asn Thr Xaa
35

<210> 78
<211> 24
<212> PRT
<213> Hepatitis C virus

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<400> 78
Xaa Gly Asp Thr His Val Thr Gly Gly Ala Gln Ala Lys Thr Thr Asn
1 5 10 15
Arg Leu Val Ser Met Phe Ala Xaa
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<210> 79
<211> 26
<212> PRT
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<400> 79
Xaa Ala Lys Thr Thr Asn Arg Leu Val Ser Met Phe Ala Ser Gly Pro
1 5 10 15
Ser Gln Lys Ile Gln Leu Ile Asn Thr Xaa
20 25

<210> 80
<211> 36
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<400> 80
Xaa Ala Glu Thr Tyr Thr Ser Gly Gly Asn Ala Gly His Thr Met Thr
1 5 10 15
Gly Ile Val Arg Phe Phe Ala Pro Gly Pro Lys Gln Asn Val His Leu
20 25 30

Ile Asn Thr Xaa
35

<210> 81
<211> 24
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 <400> 81
 Xaa Ala Glu Thr Tyr Thr Ser Gly Gly Asn Ala Gly His Thr Met Thr
 1 5 10 15

 Gly Ile Val Arg Phe Phe Ala Xaa
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<210> 82
 <211> 26
 <212> PRT
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<400> 82
 Xaa Gly His Thr Met Thr Gly Ile Val Arg Phe Phe Ala Pro Gly Pro
 1 5 10 15

 Lys Gln Asn Val His Leu Ile Asn Thr Xaa
 20 25

<210> 83
 <211> 36
 <212> PRT
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<400> 83
 Xaa Ala Glu Thr Ile Val Ser Gly Gly Gln Ala Ala Arg Ala Met Ser
 1 5 10 15

Gly Leu Val Ser Leu Phe Thr Pro Gly Ala Lys Gln Asn Ile Gln Leu
20 25 30

Ile Asn Thr Xaa
35

<210> 84
<211> 24
<212> PRT
<213> Hepatitis C virus

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<400> 84
Xaa Ala Glu Thr Ile Val Ser Gly Gly Gln Ala Ala Arg Ala Met Ser
1 5 10 15

Gly Leu Val Ser Leu Phe Thr Xaa
20

<210> 85
<211> 26
<212> PRT
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Xaa Ala Arg Ala Met Ser Gly Leu Val Ser Leu Phe Thr Pro Gly Ala
1 5 10 15

Lys Gln Asn Ile Gln Leu Ile Asn Thr Xaa
20 25

<210> 86

<211> 36
<212> PRT
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<400> 86
Xaa Ala Glu Thr Tyr Thr Thr Gly Gly Ser Thr Ala Arg Thr Thr Gln
1 5 10 15

Gly Leu Val Ser Leu Phe Ser Arg Gly Ala Lys Gln Asp Ile Gln Leu
20 25 30

Ile Asn Thr Xaa
35

<210> 87
<211> 24
<212> PRT
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<400> 87
Xaa Ala Glu Thr Tyr Thr Thr Gly Gly Ser Thr Ala Arg Thr Thr Gln
1 5 10 15

Gly Leu Val Ser Leu Phe Ser Xaa
20

<210> 88
<211> 26
<212> PRT
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<400> 88
Xaa Ala Arg Thr Thr Gln Gly Leu Val Ser Leu Phe Ser Arg Gly Ala
1 5 10 15

Lys Gln Asp Ile Gln Leu Ile Asn Thr Xaa
20 25

<210> 89
<211> 36
<212> PRT
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<400> 89
Xaa Ala Gln Thr His Thr Val Gly Gly Ser Thr Ala His Asn Ala Arg
1 5 10 15

Thr Leu Thr Gly Met Phe Ser Leu Gly Ala Arg Gln Lys Ile Gln Leu
20 25 30

Ile Asn Thr Xaa
35

<210> 90
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<212> PRT
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<400> 90

Xaa Ala Gln Thr His Thr Val Gly Gly Ser Thr Ala His Asn Ala Arg
1 5 10 15

Thr Leu Thr Gly Met Phe Ser Xaa
20

<210> 91

<211> 26

<212> PRT

<213> Hepatitis C virus

<220>

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<223> modified site

<400> 91

Xaa Ala His Asn Ala Arg Thr Leu Thr Gly Met Phe Ser Leu Gly Ala
1 5 10 15

Arg Gln Lys Ile Gln Leu Ile Asn Thr Xaa
20 25

<210> 92

<211> 22

<212> PRT

<213> Hepatitis C virus

<220>

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<222> (22)

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<400> 92

Xaa Val Asn Gln Arg Ala Val Val Ala Pro Asp Lys Glu Val Leu Tyr
1 5 10 15

Glu Ala Phe Asp Glu Xaa
20

<210> 93
<211> 22
<212> PRT
<213> Hepatitis C virus

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<222> (22)
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<400> 93
Xaa Val Ala Pro Asp Lys Glu Val Leu Tyr Glu Ala Phe Asp Glu Met
1 5 10 15

Glu Glu Cys Ala Ser Xaa
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<210> 94
<211> 22
<212> PRT
<213> Hepatitis C virus

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<400> 94
Xaa Asp Glu Met Glu Glu Cys Ala Ser Arg Ala Ala Leu Ile Glu Glu
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Gly Gln Arg Ile Ala Xaa
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<210> 95
<211> 22
<212> PRT
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<400> 95
Xaa Ala Ser Arg Ala Ala Leu Ile Glu Glu Gly Gln Arg Ile Ala Glu
1 5 10 15

Met Leu Lys Ser Lys Xaa
20

<210> 96
<211> 22
<212> PRT
<213> Hepatitis C virus

<220>
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Xaa Ile Glu Glu Gly Gln Arg Ile Ala Glu Met Leu Lys Ser Lys Ile
1 5 10 15

Gln Gly Leu Leu Gln Xaa
20

<210> 97
<211> 22
<212> PRT
<213> Hepatitis C virus

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Xaa Ile Ala Glu Met Leu Lys Ser Lys Ile Gln Gly Leu Leu Gln Gln
1 5 10 15

Ala Ser Lys Gln Ala Xaa
20

<210> 98
<211> 22
<212> PRT
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<400> 98
Xaa Ser Lys Ile Gln Gly Leu Leu Gln Gln Ala Ser Lys Gln Ala Gln
1 5 10 15

Asp Ile Gln Pro Ala Xaa
20

<210> 99
<211> 22
<212> PRT
<213> Hepatitis C virus

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<222> (22)
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<400> 99
Xaa Arg Ser Asp Leu Glu Pro Ser Ile Pro Ser Glu Tyr Met Leu Pro
1 5 10 15

Lys Lys Arg Phe Pro Xaa
20

<210> 100

<211> 22
<212> PRT
<213> Hepatitis C virus

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<222> (22)
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<400> 100
Xaa Met Leu Pro Lys Lys Arg Phe Pro Pro Ala Leu Pro Ala Trp Ala
1 5 10 15

Arg Pro Asp Tyr Asn Xaa
20

<210> 101
<211> 22
<212> PRT
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<222> (22)
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<400> 101
Xaa Ala Trp Ala Arg Pro Asp Tyr Asn Pro Pro Leu Val Glu Ser Trp
1 5 10 15

Lys Arg Pro Asp Tyr Xaa
20

<210> 102
<211> 22
<212> PRT
<213> Hepatitis C virus

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<222> (22)
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<400> 102
Xaa Glu Ser Trp Lys Arg Pro Asp Tyr Gln Pro Ala Thr Val Ala Gly
1 5 10 15
Cys Ala Leu Pro Pro Xaa
20

<210> 103
<211> 22
<212> PRT
<213> Hepatitis C virus

<220>
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<220>
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<223> modified site

<400> 103
Xaa Val Ala Gly Cys Ala Leu Pro Pro Pro Lys Lys Thr Pro Thr Pro
1 5 10 15
Pro Pro Arg Arg Arg Xaa
20

<210> 104
<211> 22
<212> PRT
<213> Hepatitis C virus

<220>
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<220>
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<222> (22)
<223> modified site

<400> 104
Xaa Leu Gly Gly Lys Pro Ala Ile Val Pro Asp Lys Glu Val Leu Tyr
1 5 10 15

Gln Gln Tyr Asp Glu Xaa
20

<210> 105
<211> 22
<212> PRT
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<400> 105
Xaa Ser Gln Ala Ala Pro Tyr Ile Glu Gln Ala Gln Val Ile Ala His
1 5 10 15

Gln Phe Lys Glu Lys Xaa
20

<210> 106
<211> 24
<212> PRT
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<400> 106
Xaa Ile Ala His Gln His Gln Phe Lys Glu Lys Val Leu Gly Leu Leu
1 5 10 15

Gln Arg Ala Thr Gln Gln Gln Xaa
20

<210> 107
<211> 33
<212> PRT
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<220>
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<400> 107
Xaa Ile Pro Asp Arg Glu Val Leu Tyr Arg Gly Gly Lys Lys Pro Asp
1 5 10 15
Tyr Glu Pro Pro Val Gly Gly Arg Arg Pro Gln Asp Val Lys Phe Pro
20 25 30

Xaa

<210> 108
<211> 33
<212> PRT
<213> Hepatitis C virus

<220>
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<222> (33)
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<400> 108
Xaa Trp Ala Arg Pro Asp Tyr Asn Pro Pro Gly Gly Gln Phe Lys Gln
1 5 10 15
Lys Ala Leu Gly Leu Gly Ser Gly Val Tyr Leu Leu Pro Arg Arg Gly
20 25 30

Xaa

<210> 109
<211> 33
<212> PRT
<213> Hepatitis C virus

<220>
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<222> (33)
<223> modified site

<400> 109
Xaa Arg Gly Arg Arg Gln Pro Ile Pro Lys Gly Gly Ser Gln His Leu
1 5 10 15

Pro Tyr Ile Glu Gln Ser Gly Pro Val Val His Gly Cys Pro Leu Pro
20 25 30

Xaa

<210> 110
<211> 12
<212> PRT
<213> Human immunodeficiency virus

<220>
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<222> (1)
<223> modified site : Ac

<220>
<221> VARIANT
<222> (12)
<223> modified site : NH2

<400> 110
Xaa Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Xaa
1 5 10

<210> 111
<211> 15
<212> PRT
<213> Human immunodeficiency virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : Bio

<220>
<221> VARIANT
<222> (15)
<223> modified site : NH2

<400> 111

Xaa Gly Gly Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Xaa
1 5 10 15

<210> 112
<211> 12
<212> PRT
<213> Human immunodeficiency virus

<220>
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<222> (1)
<223> modified site : Ac

<220>
<221> VARIANT
<222> (12)
<223> modified site : NH2

<400> 112
Xaa Ser Trp Gly Cys Ala Phe Arg Gln Val Cys Xaa
1 5 10

<210> 113
<211> 15
<212> PRT
<213> Human immunodeficiency virus

<220>
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<222> (1)
<223> modified site : Bio

<220>
<221> VARIANT
<222> (15)
<223> modified site : NH2

<400> 113
Xaa Gly Gly Gly Ser Trp Gly Cys Ala Phe Arg Gln Val Cys Xaa
1 5 10 15

<210> 114
<211> 25
<212> PRT
<213> Human immunodeficiency virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : Ac

<220>
<221> VARIANT
<222> (25)
<223> modified site : NH2

<400> 114
Xaa Tyr Asn Lys Arg Lys Arg Ile His Ile Gly Pro Gly Arg Ala Phe
1 5 10 15
Tyr Thr Thr Lys Asn Ile Ile Gly Xaa
20 25

<210> 115
<211> 26
<212> PRT
<213> Human immunodeficiency virus

<220>
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<222> (1)
<223> modified site : Bio

<220>
<221> VARIANT
<222> (26)
<223> modified site : NH2

<400> 115
Xaa Gly Gly Tyr Asn Lys Arg Lys Arg Ile His Ile Gly Pro Gly Arg
1 5 10 15
Ala Phe Thr Thr Lys Asn Ile Ile Gly Xaa
20 25

<210> 116
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 116
Ser Gln His Leu Pro Tyr Ile Glu Gln Gly Met Met Leu Ala Glu Gln
1 5 10 15
Phe Lys Gln Lys
20

<210> 117
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 117

Leu Arg Lys Ser Arg Arg Phe Ala Gln Ala Leu Pro Val Trp Ala Arg
1 5 10 15

Pro Asp Tyr Asn
20

<210> 118

<211> 19

<212> PRT

<213> Hepatitis C virus

<400> 118

Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn Arg Arg Pro Gln Asp Val
1 5 10 15

Lys Phe Gly

<210> 119

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 119

Arg Asn Thr Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly
1 5 10 15

Gln Ile Val Gly
20

<210> 120

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 120

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
1 5 10 15

Ile Pro Lys Val
20

<210> 121

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 121

Ile Ile Pro Asp Arg Glu Val Leu Tyr Arg Glu Phe Asp Glu Met Glu
1 5 10 15

Glu Cys Ser Gln
20

<210> 122
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 122
Glu Thr Trp Lys Lys Pro Asp Tyr Glu Pro Pro Val Val His Gly Cys
1 5 10 15

Pro Leu Pro Pro
20

<210> 123
<211> 21
<212> PRT
<213> Hepatitis C virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : NH2

<220>
<221> VARIANT
<222> (21)
<223> modified site : CONH2

<400> 123
Xaa Met Ser Thr Ile Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr
1 5 10 15

Asn Arg Pro Gln Xaa
20

<210> 124
<211> 24
<212> PRT
<213> Hepatitis C virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : NH2

<220>

<221> VARIANT
<222> (23)
<223> modified site : Lys (Bio)

<220>
<221> VARIANT
<222> (24)
<223> modified site : CONH2

<400> 124
Xaa Met Ser Thr Ile Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr
1 5 10 15

Asn Arg Pro Gln Gly Gly Xaa Xaa
20

<210> 125
<211> 34
<212> PRT
<213> Hepatitis C virus

<400> 125
Gly Glu Thr Tyr Thr Ser Gly Gly Ala Ala Ser His Thr Thr Ser Thr
1 5 10 15

Leu Ala Ser Leu Phe Ser Pro Gly Ala Ser Gln Arg Ile Gln Leu Val
20 25 30

Asn Thr

<210> 126
<211> 34
<212> PRT
<213> Hepatitis C virus

<400> 126
Gly His Thr Arg Val Ser Gly Gly Ala Ala Ala Ser Asp Thr Arg Gly
1 5 10 15

Leu Val Ser Leu Phe Ser Pro Gly Ser Ala Gln Lys Ile Gln Leu Val
20 25 30

Asn Thr

<210> 127
<211> 34
<212> PRT
<213> Hepatitis C virus

<400> 127
 Gly His Thr Arg Val Thr Gly Gly Val Gln Gly His Val Thr Cys Thr
 1 5 10 15

Leu Thr Ser Leu Phe Arg Pro Gly Ala Ser Gln Lys Ile Gln Leu Val
 20 25 30

Asn Thr

<210> 128
 <211> 34
 <212> PRT
 <213> Hepatitis C virus

<400> 128
 Gly His Thr His Val Thr Gly Gly Arg Val Ala Ser Ser Thr Gln Ser
 1 5 10 15

Leu Val Ser Trp Leu Ser Gln Gly Pro Ser Gln Lys Ile Gln Leu Val
 20 25 30

Asn Thr

<210> 129
 <211> 34
 <212> PRT
 <213> Hepatitis C virus

<400> 129
 Gly Asp Thr His Val Thr Gly Gly Ala Gln Ala Lys Thr Thr Asn Arg
 1 5 10 15

Leu Val Ser Met Phe Ala Ser Gly Pro Ser Gln Lys Ile Gln Leu Ile
 20 25 30

Asn Thr

<210> 130
 <211> 34
 <212> PRT
 <213> Hepatitis C virus

<400> 130
 Ala Glu Thr Tyr Thr Ser Gly Gly Asn Ala Gly His Thr Met Thr Gly
 1 5 10 15

Ile Val Arg Phe Phe Ala Pro Gly Pro Lys Gln Asn Val His Leu Ile
 20 25 30

Asn Thr

<210> 131
<211> 34
<212> PRT
<213> Hepatitis C virus

<400> 131
Ala Glu Thr Ile Val Ser Gly Gly Gln Ala Ala Arg Ala Met Ser Gly
1 5 10 15
Leu Val Ser Leu Phe Thr Pro Gly Ala Lys Gln Asn Ile Gln Leu Ile
20 25 30

Asn Thr

<210> 132
<211> 34
<212> PRT
<213> Hepatitis C virus

<400> 132
Ala Glu Thr Tyr Thr Thr Gly Gly Ser Thr Ala Arg Thr Thr Gln Gly
1 5 10 15
Leu Val Ser Leu Phe Ser Arg Gly Ala Lys Gln Asp Ile Gln Leu Ile
20 25 30

Asn Thr

<210> 133
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 133
Met Ser Thr Ile Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln
20

<210> 134
<211> 15
<212> PRT

<213> Hepatitis C virus

<400> 134

Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn Arg Arg Pro
1 5 10 15

<210> 135

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 135

Arg Asn Thr Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly
1 5 10 15

Gln Ile Val Gly
20

<210> 136

<211> 32

<212> PRT

<213> Hepatitis C virus

<400> 136

Met Ser Thr Ile Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

<210> 137

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 137

Val Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val
1 5 10 15

Arg Ala Thr Arg
20

<210> 138

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 138

Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala Thr Arg Lys Thr
1 5 10 15

Ser Glu Arg Ser
20

<210> 139

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 139

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
1 5 10 15

Ile Pro Glu Val
20

<210> 140

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 140

Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro Ile Pro Glu Val Arg Arg
1 5 10 15

Pro Glu Gly Arg
20

<210> 141

<211> 39

<212> PRT

<213> Hepatitis C virus

<400> 141

Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg
1 5 10 15

Ala Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln
20 25 30

Pro Ile Pro Lys Val Arg Arg
35

<210> 142

<211> 20

<212> PRT
<213> Hepatitis C virus

<400> 142
Ser Gln His Leu Pro Tyr Ile Glu Gln Gly Met Met Leu Ala Glu Gln
1 5 10 15

Phe Lys Gln Lys
20

<210> 143
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 143
Leu Ala Glu Gln Phe Lys Gln Lys Ala Leu Gly Leu Leu Gln Thr Ala
1 5 10 15

Ser Arg Gln Ala
20

<210> 144
<211> 32
<212> PRT
<213> Hepatitis C virus

<400> 144
Ser Gln His Leu Pro Tyr Ile Glu Gln Gly Met Met Leu Ala Glu Gln
1 5 10 15

Phe Lys Gln Lys Ala Leu Gly Leu Leu Gln Thr Ala Ser Arg Gln Ala
20 25 30

<210> 145
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 145
Glu Asp Glu Arg Glu Ile Ser Val Pro Ala Glu Ile Leu Arg Lys Ser
1 5 10 15

Arg Arg Phe Ala
20

<210> 146
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 146
Leu Arg Lys Ser Arg Arg Phe Ala Gln Ala Leu Pro Val Trp Ala Arg
1 5 10 15
Pro Asp Tyr Asn
20

<210> 147
<211> 32
<212> PRT
<213> Hepatitis C virus

<400> 147
Glu Asp Glu Arg Glu Ile Ser Val Pro Ala Glu Ile Leu Arg Lys Ser
1 5 10 15
Arg Arg Phe Ala Gln Ala Leu Pro Val Trp Ala Arg Pro Asp Tyr Asn
20 25 30

<210> 148
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 148
Leu Ser Gly Lys Pro Ala Ile Ile Pro Asp Arg Glu Val Leu Tyr Arg
1 5 10 15
Glu Phe Asp Glu
20

<210> 149
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 149
Val Asn Gln Arg Ala Val Val Ala Pro Asp Lys Glu Val Leu Tyr Glu
1 5 10 15
Ala Phe Asp Glu
20

<210> 150
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 150
Ser Gln His Leu Pro Tyr Ile Glu Gln Gly Met Met Leu Ala Glu Gln
1 5 10 15

Phe Lys Gln Lys
20

<210> 151
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 151
Ala Ser Arg Ala Ala Leu Ile Glu Glu Gly Gln Arg Ile Ala Glu Met
1 5 10 15

Leu Lys Ser Lys
20

<210> 152
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 152
Leu Ala Glu Gln Phe Lys Gln Lys Ala Leu Gly Leu Leu Gln Thr Ala
1 5 10 15

Ser Arg Gln Ala
20

<210> 153
<211> 20
<212> PRT
<213> Hepatitis C virus

<400> 153
Ile Ala Glu Met Leu Lys Ser Lys Ile Gln Gly Leu Leu Gln Gln Ala
1 5 10 15

Ser Lys Gln Ala
20

<210> 154
<211> 23
<212> PRT
<213> Human immunodeficiency virus

<400> 154
Asn Asn Thr Arg Lys Ser Ile His Ile Gly Pro Gly Arg Ala Phe Tyr
1 5 10 15
Thr Thr Gly Glu Ile Ile Gly
20

<210> 155
<211> 23
<212> PRT
<213> Human immunodeficiency virus

<400> 155
Asn Asn Thr Arg Lys Ser Ile Tyr Ile Gly Pro Gly Arg Ala Phe His
1 5 10 15
Thr Thr Gly Arg Ile Ile Gly
20

<210> 156
<211> 23
<212> PRT
<213> Human immunodeficiency virus

<400> 156
Asn Asn Thr Thr Arg Ser Ile His Ile Gly Pro Gly Arg Ala Phe Tyr
1 5 10 15
Ala Thr Gly Asp Ile Ile Gly
20

<210> 157
<211> 23
<212> PRT
<213> Human immunodeficiency virus

<400> 157
Tyr Asn Lys Arg Lys Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr
1 5 10 15
Thr Thr Lys Asn Ile Ile Gly
20

<210> 158
<211> 23
<212> PRT
<213> Human immunodeficiency virus

<400> 158
Asn Asn Thr Arg Lys Ser Ile Thr Lys Gly Pro Gly Arg Val Ile Tyr
1 5 10 15

Ala Thr Gly Gln Ile Ile Gly
20

<210> 159
<211> 22
<212> PRT
<213> Human immunodeficiency virus

<400> 159
Asn Asn Thr Arg Arg Gly Ile His Phe Gly Pro Gly Gln Ala Leu Tyr
1 5 10 15

Thr Thr Gly Ile Val Gly
20

<210> 160
<211> 24
<212> PRT
<213> Human immunodeficiency virus

<400> 160
Asn Asn Thr Arg Lys Ser Ile Arg Ile Gln Arg Gly Pro Gly Arg Ala
1 5 10 15

Phe Val Thr Ile Gly Lys Ile Gly
20

<210> 161
<211> 22
<212> PRT
<213> Human immunodeficiency virus

<400> 161
Gln Asn Thr Arg Gln Arg Thr Pro Ile Gly Leu Gly Gln Ser Leu Tyr
1 5 10 15

Thr Thr Arg Ser Arg Ser
20

<210> 162

<211> 21
<212> PRT
<213> Human immunodeficiency virus

<400> 162
Gln Ile Asp Ile Gln Glu Met Arg Ile Gly Pro Met Ala Trp Tyr Ser
1 5 10 15

Met Gly Ile Gly Gly
20

<210> 163
<211> 23
<212> PRT
<213> Human immunodeficiency virus

<400> 163
Asn Asn Thr Arg Arg Gly Ile His Met Gly Trp Gly Arg Thr Phe Tyr
1 5 10 15

Ala Thr Gly Glu Ile Ile Gly
20

<210> 164
<211> 22
<212> PRT
<213> Human immunodeficiency virus

<400> 164
Asn Lys Thr Val Val Pro Ile Thr Leu Met Ser Gly Leu Val Phe His
1 5 10 15

Ser Gln Pro Ile Asn Lys
20

<210> 165
<211> 22
<212> PRT
<213> Human immunodeficiency virus

<400> 165
Asn Lys Thr Val Leu Pro Val Thr Ile Met Ser Gly Leu Val Phe His
1 5 10 15

Ser Gln Pro Ile Asn Asp
20

<210> 166
<211> 25

<212> PRT
<213> Human T-cell lymphotropic virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : Bio

<400> 166
Xaa Gly Gly Val Leu Tyr Ser Pro Asn Val Ser Val Pro Ser Ser Ser
1 5 10 15

Ser Thr Leu Leu Tyr Pro Ser Leu Ala
20 25

<210> 167
<211> 24
<212> PRT
<213> Human T-cell lymphotropic virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : Bio

<400> 167
Xaa Gly Gly Tyr Thr Cys Ile Val Cys Ile Asp Arg Ala Ser Leu Ser
1 5 10 15

Thr Trp His Val Leu Tyr Ser Pro
20

<210> 168
<211> 25
<212> PRT
<213> Human T-cell lymphotropic virus

<220>
<221> VARIANT
<222> (1)
<223> modified site

<400> 168
Xaa Gly Gly Asn Ser Leu Ile Leu Pro Pro Phe Ser Leu Ser Pro Val
1 5 10 15

Pro Thr Leu Gly Ser Arg Ser Arg Arg
20 25

<210> 169
<211> 39

<212> PRT
<213> Human T-cell lymphotropic virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : Bio

<400> 169
Xaa Gly Gly Asp Ala Pro Gly Tyr Asp Pro Ile Trp Phe Leu Asn Thr
1 5 10 15

Glu Pro Ser Gln Leu Pro Pro Thr Ala Pro Pro Leu Leu Pro His Ser
20 25 30

Asn Leu Asp His Ile Leu Glu
35

<210> 170
<211> 34
<212> PRT
<213> Human T-cell lymphotropic virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : Bio

<400> 170
Xaa Gly Gly Gln Tyr Ala Ala Gln Asn Arg Arg Gly Leu Asp Leu Leu
1 5 10 15

Phe Trp Glu Gln Gly Gly Leu Cys Lys Ala Leu Gln Glu Gln Cys Arg
20 25 30

Phe Pro

<210> 171
<211> 34
<212> PRT
<213> Human T-cell lymphotropic virus

<220>
<221> VARIANT
<222> (1)
<223> modified site : Bio

<400> 171
Xaa Gly Gly Pro Pro Pro Pro Ser Ser Pro Thr His Asp Pro Pro Asp
1 5 10 15

Ser Asp Pro Gln Ile Pro Pro Pro Tyr Val Glu Pro Thr Ala Pro Gln

20

25

30

Val Leu

<210> 172
 <211> 21
 <212> PRT
 <213> Human T-cell lymphotropic virus

<220>
 <221> VARIANT
 <222> (1)
 <223> modified site : Bio

<400> 172
 Xaa Gly Gly Lys Lys Pro Asn Arg Gln Gly Leu Gly Tyr Tyr Ser Pro
 1 5 10 15

Ser Tyr Asn Asp Pro
 20

<210> 173
 <211> 39
 <212> PRT
 <213> Human T-cell lymphotropic virus

<220>
 <221> VARIANT
 <222> (1)
 <223> modified site

<400> 173
 Xaa Gly Gly Asp Ala Pro Gly Tyr Asp Pro Leu Trp Phe Ile Thr Ser
 1 5 10 15

Glu Pro Thr Gln Pro Pro Pro Thr Ser Pro Pro Leu Val His Asp Ser
 20 25 30

Asp Leu Glu His Val Leu Thr
 35

<210> 174
 <211> 41
 <212> PRT
 <213> Human T-cell lymphotropic virus

<220>
 <221> VARIANT
 <222> (1)
 <223> modified site : Bio

<400> 174
 Xaa Gly Gly Tyr Ser Cys Met Val Cys Val Asp Arg Ser Ser Leu Ser
 1 5 10 15
 Ser Trp His Val Leu Tyr Thr Pro Asn Ile Ser Ile Pro Gln Gln Thr
 20 25 30
 Ser Ser Arg Thr Ile Leu Phe Pro Ser
 35 40

<210> 175
 <211> 33
 <212> PRT
 <213> Human T-cell lymphotropic virus

<220>
 <221> VARIANT
 <222> (1)
 <223> modified site : Bio

<400> 175
 Xaa Gly Gly Pro Thr Thr Thr Pro Pro Pro Pro Pro Pro Ser Pro
 1 5 10 15
 Glu Ala His Val Pro Pro Pro Tyr Val Glu Pro Thr Thr Thr Gln Cys
 20 25 30
 Phe

<210> 176
 <211> 14
 <212> PRT
 <213> Human immunodeficiency virus

<220>
 <221> VARIANT
 <222> (1)
 <223> modified site : Bio

<400> 176
 Xaa Gly Gly Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys
 1 5 10

<210> 177
 <211> 13
 <212> PRT
 <213> Human immunodeficiency virus

<220>

<221> VARIANT

<222> (13)

<223> modified site : Lys (Bio)

<400> 177

Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Gly Gly Xaa
1 5 10

<210> 178

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 178

Met Ser Thr Ile Pro Lys Pro Gln Arg
1 5

<210> 179

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 179

Ser Thr Ile Pro Lys Pro Gln Arg Lys
1 5

<210> 180

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 180

Thr Ile Pro Lys Pro Gln Arg Lys Thr
1 5

<210> 181

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 181

Ile Pro Lys Pro Gln Arg Lys Thr Lys
1 5

<210> 182

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 182

Pro Lys Pro Gln Arg Lys Thr Lys Arg
1 5

<210> 183

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 183

Lys Pro Gln Arg Lys Thr Lys Arg Asn
1 5

<210> 184

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 184

Pro Gln Arg Lys Thr Lys Arg Asn Thr
1 5

<210> 185

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 185

Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5

<210> 186

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 186

Arg Lys Thr Lys Arg Asn Thr Asn Arg
1 5

<210> 187

<211> 9

<212> PRT

<213> Hepatitis C virus

<400> 187
Lys Thr Lys Arg Asn Thr Asn Arg Arg
1 5

<210> 188
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 188
Thr Lys Arg Asn Thr Asn Arg Arg Pro
1 5

<210> 189
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 189
Lys Arg Asn Thr Asn Arg Arg Pro Gln
1 5

<210> 190
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 190
Arg Asn Thr Asn Arg Arg Pro Gln Asp
1 5

<210> 191
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 191
Asn Thr Asn Arg Arg Pro Gln Asp Val
1 5

<210> 192
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 192
Thr Asn Arg Arg Pro Gln Asp Val Lys

1

5

<210> 193
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 193
Asn Arg Arg Pro Gln Asp Val Lys Phe
1 5

<210> 194
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 194
Arg Arg Pro Gln Asp Val Lys Phe Pro
1 5

<210> 195
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 195
Arg Pro Gln Asp Val Lys Phe Pro Gly
1 5

<210> 196
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 196
Pro Gln Asp Val Lys Phe Pro Gly Gly
1 5

<210> 197
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 197
Gln Asp Val Lys Phe Pro Gly Gly Gly
1 5

<210> 198
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 198
Asp Val Lys Phe Pro Gly Gly Gly Gln
1 5

<210> 199
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 199
Val Lys Phe Pro Gly Gly Gly Gln Ile
1 5

<210> 200
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 200
Lys Phe Pro Gly Gly Gly Gln Ile Val
1 5

<210> 201
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 201
Phe Pro Gly Gly Gly Gln Ile Val Gly
1 5

<210> 202
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 202
Pro Gly Gly Gly Gln Ile Val Gly Gly
1 5

<210> 203
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 203
Gly Gly Gln Ile Val Gly Gly Val
1 5

<210> 204
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 204
Gly Gly Gln Ile Val Gly Gly Val Tyr
1 5

<210> 205
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 205
Gly Gln Ile Val Gly Gly Val Tyr Leu
1 5

<210> 206
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 206
Gln Ile Val Gly Gly Val Tyr Leu Leu
1 5

<210> 207
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 207
Ile Val Gly Gly Val Tyr Leu Leu Pro
1 5

<210> 208
<211> 9

<212> PRT
<213> Hepatitis C virus

<400> 208
Val Gly Gly Val Tyr Leu Leu Pro Arg
1 5

<210> 209
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 209
Gly Gly Val Tyr Leu Leu Pro Arg Arg
1 5

<210> 210
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 210
Gly Val Tyr Leu Leu Pro Arg Arg Gly
1 5

<210> 211
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 211
Val Tyr Leu Leu Pro Arg Arg Gly Pro
1 5

<210> 212
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 212
Tyr Leu Leu Pro Arg Arg Gly Pro Arg
1 5

<210> 213
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 213
Leu Leu Pro Arg Arg Gly Pro Arg Leu
1 5

<210> 214
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 214
Leu Pro Arg Arg Gly Pro Arg Leu Gly
1 5

<210> 215
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 215
Pro Arg Arg Gly Pro Arg Leu Gly Val
1 5

<210> 216
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 216
Arg Arg Gly Pro Arg Leu Gly Val Arg
1 5

<210> 217
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 217
Arg Gly Pro Arg Leu Gly Val Arg Ala
1 5

<210> 218
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 218

Gly Pro Arg Leu Gly Val Arg Ala Thr
1 5

<210> 219
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 219
Pro Arg Leu Gly Val Arg Ala Thr Arg
1 5

<210> 220
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 220
Arg Leu Gly Val Arg Ala Thr Arg Lys
1 5

<210> 221
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 221
Leu Gly Val Arg Ala Thr Arg Lys Thr
1 5

<210> 222
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 222
Gly Val Arg Ala Thr Arg Lys Thr Ser
1 5

<210> 223
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 223
Val Arg Ala Thr Arg Lys Thr Ser Glu
1 5

<210> 224
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 224
Arg Ala Thr Arg Lys Thr Ser Glu Arg
1 5

<210> 225
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 225
Ala Thr Arg Lys Thr Ser Glu Arg Ser
1 5

<210> 226
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 226
Thr Arg Lys Thr Ser Glu Arg Ser Gln
1 5

<210> 227
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 227
Arg Lys Thr Ser Glu Arg Ser Gln Pro
1 5

<210> 228
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 228
Lys Thr Ser Glu Arg Ser Gln Pro Arg
1 5

<210> 229
<211> 9
<212> PRT
<213> Hepatitis C virus

<400> 229
Thr Ser Glu Arg Ser Gln Pro Arg Gly
1 5

<210> 230
<211> 9
<212> PRT
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<400> 230
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<400> 389

Val Val His Gly Cys Pro Leu Pro Pro
1 5

<210> 390
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Val His Gly Cys Pro Leu Pro Pro Pro
1 5

<210> 391
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<212> PRT
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His Gly Cys Pro Leu Pro Pro Pro Lys
1 5

<210> 392
<211> 9
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<400> 392
Gly Cys Pro Leu Pro Pro Pro Lys Ser
1 5

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Cys Pro Leu Pro Pro Pro Lys Ser Pro
1 5

<210> 394
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<400> 394
Pro Leu Pro Pro Pro Lys Ser Pro Pro
1 5

<210> 395
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<400> 395
Leu Pro Pro Pro Lys Ser Pro Pro Val
1 5

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<400> 396
Pro Pro Pro Lys Ser Pro Pro Val Pro
1 5

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Pro Pro Lys Ser Pro Pro Val Pro Pro
1 5

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<400> 398
Pro Lys Ser Pro Pro Val Pro Pro Pro
1 5

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<400> 399
Lys Ser Pro Pro Val Pro Pro Pro Arg
1 5

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<400> 400
Ser Pro Pro Val Pro Pro Pro Arg Lys
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<400> 401
Pro Pro Val Pro Pro Pro Arg Lys Lys
1 5

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amino acid, OH-group, NH2-group, or a linkage
involving these two groups

<400> 402
Xaa Met Ser Thr Ile Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr
1 5 10 15

Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val
20 25 30

Gly Xaa

<210> 403
<211> 41
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<400> 403

Xaa Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val
1 5 10 15

Arg Ala Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg
20 25 30

Gln Pro Ile Pro Lys Val Arg Arg Xaa
35 40

<210> 404

<211> 34

<212> PRT

<213> Hepatitis C virus

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<400> 404

Xaa Ser Gln His Leu Pro Tyr Ile Glu Gln Gly Met Met Leu Ala Glu
1 5 10 15

Gln Phe Lys Gln Lys Ala Leu Gly Leu Leu Gln Thr Ala Ser Arg Gln
20 25 30

Ala Xaa

<210> 405
<211> 34
<212> PRT
<213> Hepatitis C virus

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<400> 405
Xaa Glu Asp Glu Arg Glu Ile Ser Val Pro Ala Glu Ile Leu Arg Lys
1 5 10 15
Ser Arg Arg Phe Ala Gln Ala Leu Pro Val Trp Ala Arg Pro Asp Tyr
20 25 30

Asn Xaa

<210> 406
<211> 22
<212> PRT
<213> Hepatitis C virus

<400> 406
Gly Glu Thr Tyr Thr Ser Gly Gly Ala Ala Ser His Thr Thr Ser Thr
1 5 10 15

Leu Ala Ser Leu Phe Ser
20

<210> 407
<211> 24
<212> PRT
<213> Hepatitis C virus

<400> 407
Ser His Thr Thr Ser Thr Leu Ala Ser Leu Phe Ser Pro Gly Ala Ser
1 5 10 15

Gln Arg Ile Gln Leu Val Asn Thr

<210> 408
 <211> 22
 <212> PRT
 <213> Hepatitis C virus

<400> 408
 Gly His Thr Arg Val Ser Gly Gly Ala Ala Ala Ser Asp Thr Arg Gly
 1 5 10 15

Leu Val Ser Leu Phe Ser
 20

<210> 409
 <211> 24
 <212> PRT
 <213> Hepatitis C virus

<400> 409
 Ala Ser Asp Thr Arg Gly Leu Val Ser Leu Phe Ser Pro Gly Ser Ala
 1 5 10 15

Gln Lys Ile Gln Leu Val Asn Thr
 20

<210> 410
 <211> 22
 <212> PRT
 <213> Hepatitis C virus

<400> 410
 Gly His Thr Arg Val Thr Gly Gly Val Gln Gly His Val Thr Cys Thr
 1 5 10 15

Leu Thr Ser Leu Phe Arg
 20

<210> 411
 <211> 24
 <212> PRT
 <213> Hepatitis C virus

<400> 411
 Gly His Val Thr Cys Thr Leu Thr Ser Leu Phe Arg Pro Gly Ala Ser
 1 5 10 15

Gln Lys Ile Gln Leu Val Asn Thr
 20

<210> 412
<211> 22
<212> PRT
<213> Hepatitis C virus

<400> 412
Gly His Thr His Val Thr Gly Gly Arg Val Ala Ser Ser Thr Gln Ser
1 5 10 15

Leu Val Ser Trp Leu Ser
20

<210> 413
<211> 24
<212> PRT
<213> Hepatitis C virus

<400> 413
Ala Ser Ser Thr Gln Ser Leu Val Ser Trp Leu Ser Gln Gly Pro Ser
1 5 10 15

Gln Lys Ile Gln Leu Val Asn Thr
20

<210> 414
<211> 22
<212> PRT
<213> Hepatitis C virus

<400> 414
Gly Asp Thr His Val Thr Gly Gly Ala Gln Ala Lys Thr Thr Asn Arg
1 5 10 15

Leu Val Ser Met Phe Ala
20

<210> 415
<211> 24
<212> PRT
<213> Hepatitis C virus

<400> 415
Ala Lys Thr Thr Asn Arg Leu Val Ser Met Phe Ala Ser Gly Pro Ser
1 5 10 15

Gln Lys Ile Gln Leu Ile Asn Thr
20

<210> 416
<211> 22
<212> PRT
<213> Hepatitis C virus

<400> 416
Ala Glu Thr Tyr Thr Ser Gly Gly Asn Ala Gly His Thr Met Thr Gly
1 5 10 15
Ile Val Arg Phe Phe Ala
20

<210> 417
<211> 24
<212> PRT
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<400> 417
Gly His Thr Met Thr Gly Ile Val Arg Phe Phe Ala Pro Gly Pro Lys
1 5 10 15
Gln Asn Val His Leu Ile Asn Thr
20

<210> 418
<211> 22
<212> PRT
<213> Hepatitis C virus

<400> 418
Ala Glu Thr Ile Val Ser Gly Gly Gln Ala Ala Arg Ala Met Ser Gly
1 5 10 15
Leu Val Ser Leu Phe Thr
20

<210> 419
<211> 24
<212> PRT
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<400> 419
Ala Arg Ala Met Ser Gly Leu Val Ser Leu Phe Thr Pro Gly Ala Lys
1 5 10 15
Gln Asn Ile Gln Leu Ile Asn Thr
20

<210> 420
<211> 22
<212> PRT
<213> Hepatitis C virus

<400> 420
Ala Glu Thr Tyr Thr Thr Gly Gly Ser Thr Ala Arg Thr Thr Gln Gly
1 5 10 15

Leu Val Ser Leu Phe Ser
20

<210> 421
<211> 24
<212> PRT
<213> Hepatitis C virus

<400> 421
Ala Arg Thr Thr Gln Gly Leu Val Ser Leu Phe Ser Arg Gly Ala Lys
1 5 10 15

Gln Asp Ile Gln Leu Ile Asn Thr
20

<210> 422
<211> 6
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<400> 422
Pro Gln Arg Lys Thr Lys
1 5

<210> 423
<211> 7
<212> PRT
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<400> 423
Lys Thr Lys Arg Asn Thr Asn
1 5

<210> 424
<211> 7
<212> PRT
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<400> 424

Pro Gln Asp Val Lys Phe Pro
1 5

<210> 425
<211> 6
<212> PRT
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<400> 425
Tyr Leu Leu Pro Arg Arg
1 5

<210> 426
<211> 7
<212> PRT
<213> Hepatitis C virus

<400> 426
Pro Arg Arg Gly Pro Arg Leu
1 5

<210> 427
<211> 7
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<400> 427
Arg Leu Gly Val Arg Ala Thr
1 5

<210> 428
<211> 7
<212> PRT
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<400> 428
Ser Gln Pro Arg Gly Arg Arg
1 5

<210> 429
<211> 7
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<213> Hepatitis C virus

<400> 429
Arg Arg Gln Pro Ile Pro Lys
1 5

<210> 430
<211> 6
<212> PRT
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<400> 430
Arg Thr Trp Ala Gln Pro
1 5

<210> 431
<211> 8
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<400> 431
Gln Pro Gly Tyr Pro Trp Pro Leu
1 5

<210> 432
<211> 6
<212> PRT
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<400> 432
Pro Asp Arg Glu Val Leu
1 5

<210> 433
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<400> 433
His Leu Pro Tyr Ile Glu
1 5

<210> 434
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<400> 434
Tyr Ile Glu Gln Gly Met Met Leu
1 5

<210> 435
<211> 7
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<400> 435
Ala Glu Gln Phe Lys Gln Lys
1 5

<210> 436
<211> 6
<212> PRT
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<400> 436
Lys Gln Lys Ala Leu Gly
1 5

<210> 437
<211> 7
<212> PRT
<213> Hepatitis C virus

<400> 437
Leu Gly Leu Leu Gln Thr Ala
1 5

<210> 438
<211> 7
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<400> 438
Pro Ala Glu Ile Leu Arg Lys
1 5

<210> 439
<211> 7
<212> PRT
<213> Hepatitis C virus

<400> 439
Glu Ile Leu Arg Lys Ser Arg
1 5

<210> 440

<211> 7
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<400> 440
Gln Ala Leu Pro Val Trp Ala
1 5

<210> 441
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<400> 441
Pro Asp Tyr Asn Pro Pro
1 5

<210> 442
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<400> 442
Leu Val Glu Thr Trp Lys Lys
1 5

<210> 443
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<400> 443
Asp Tyr Glu Pro Pro Val
1 5

<210> 444
<211> 5
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<213> Hepatitis C virus

<400> 444
His Gly Cys Pro Leu
1 5

<210> 445
<211> 20
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<400> 445

Gly Ala Leu Val Ala Phe Lys Ile Met Ser Gly Glu Val Pro Ser Thr
1 5 10 15

Glu Asp Leu Val
20

<210> 446

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 446

Val Pro Ser Thr Glu Asp Leu Val Asn Leu Leu Pro Ala Ile Leu Ser
1 5 10 15

Pro Gly Ala Leu
20

<210> 447

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 447

Ala Ile Leu Ser Pro Gly Ala Leu Val Val Gly Val Val Cys Ala Ala
1 5 10 15

Ile Leu Arg Arg
20

<210> 448

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 448

Val Cys Ala Ala Ile Leu Arg Arg His Val Gly Pro Gly Glu Gly Ala
1 5 10 15

Val Gln Trp Met
20

<210> 449

<211> 20

<212> PRT

<213> Hepatitis C virus

<400> 449
Gly Glu Gly Ala Val Gln Trp Met Asn Arg Leu Ile Ala Phe Ala Ser
1 5 10 15

Arg Gly Asn His
20

<210> 450
<211> 34
<212> PRT
<213> Hepatitis C virus

<400> 450
Gly Gly Ile Pro Asp Arg Glu Val Leu Tyr Arg Gly Gly Lys Lys Pro
1 5 10 15

Asp Thr Tyr Glu Pro Pro Val Gly Gly Arg Arg Pro Gln Asp Val Lys
20 25 30

Phe Pro

<210> 451
<211> 33
<212> PRT
<213> Hepatitis C virus

<400> 451
Gly Gly Trp Ala Arg Pro Asp Tyr Asn Pro Pro Gly Gly Gln Phe Lys
1 5 10 15

Gln Lys Ala Leu Gly Leu Gly Ser Gly Val Tyr Leu Leu Pro Arg Arg
20 25 30

Gly

<210> 452
<211> 33
<212> PRT
<213> Hepatitis C virus

<400> 452
Gly Gly Arg Gly Arg Arg Gln Pro Ile Pro Lys Gly Gly Ser Gln His
1 5 10 15

Leu Pro Tyr Ile Glu Gln Ser Gly Pro Val Val His Gly Cys Pro Leu
20 25 30

Pro

<210> 453
<211> 36
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involv-ing these two groups

<400> 453
Ala Gly Glu Thr Tyr Thr Ser Gly Gly Ala Ala Ser His Thr Thr Ser
1 5 10 15
Thr Leu Ala Ser Leu Phe Ser Pro Gly Ala Ser Gln Arg Ile Gln Leu
20 25 30
Val Asn Thr Glx
35

<210> 454
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<400> 454
Ala Gly His Thr Arg Val Ser Gly Gly Ala Ala Ala Ser Asp Thr Arg
1 5 10 15

Gly Leu Val Ser Leu Phe Ser Pro Gly Ser Ala Gln Lys Ile Gln Leu
 20 25 30

Val Asn Thr Glx
 35

<210> 455
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<400> 455
 Ala Gly His Thr Arg Val Thr Gly Gly Val Gln Gly His Val Thr Cys
 1 5 10 15

Thr Leu Thr Ser Leu Phe Arg Pro Gly Ala Ser Gln Lys Ile Gln Leu
 20 25 30

Val Asn Thr Glx
 35

<210> 456
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<400> 456

Ala Gly His Thr His Val Thr Gly Gly Arg Val Ala Ser Ser Thr Gln
1 5 10 15

Ser Leu Val Ser Trp Leu Ser Gln Gly Pro Ser Gln Lys Ile Gln Leu
20 25 30

Val Asn Thr Glx
35

<210> 457

<211> 36

<212> PRT

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involv-ing these two groups

<400> 457

Ala Gly Asp Thr His Val Thr Gly Gly Ala Gln Ala Lys Thr Thr Asn
1 5 10 15

Arg Leu Val Ser Met Phe Ala Ser Gly Pro Ser Gln Lys Ile Gln Leu
20 25 30

Ile Asn Thr Glx
35

<210> 458

<211> 36

<212> PRT

<213> Hepatitis C virus

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<400> 458

Ala Ala Glu Thr Tyr Thr Ser Gly Gly Asn Ala Gly His Thr Met Thr
1 5 10 15

Gly Ile Val Arg Phe Phe Ala Pro Gly Pro Lys Gln Asn Val His Leu
20 25 30

Ile Asn Thr Glx
35

<210> 459

<211> 36

<212> PRT

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<400> 459

Ala Ala Glu Thr Ile Val Ser Gly Gly Gln Ala Ala Arg Ala Met Ser
1 5 10 15

Gly Leu Val Ser Leu Phe Thr Pro Gly Ala Lys Gln Asn Ile Gln Leu
20 25 30

Ile Asn Thr Glx
35

<210> 460

<211> 36

<212> PRT

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<400> 460
Ala Ala Glu Thr Tyr Thr Thr Gly Gly Ser Thr Ala Arg Thr Thr Gln
1 5 10 15
Gly Leu Val Ser Leu Phe Ser Arg Gly Ala Lys Gln Asp Ile Gln Leu
20 25 30
Ile Asn Thr Glx
35

<210> 461
<211> 24
<212> PRT
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<400> 461
Ala Gly Glu Thr Tyr Thr Ser Gly Gly Ala Ala Ser His Thr Thr Ser
1 5 10 15
Thr Leu Ala Ser Leu Phe Ser Glx
20

<210> 462
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<212> PRT
<213> Hepatitis C virus

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involv-ing these two groups

<400> 462
Ala Ser His Thr Thr Ser Thr Leu Ala Ser Leu Phe Ser Pro Gly Ala
1 5 10 15
Ser Gln Arg Ile Gln Leu Val Asn Thr Glx
20 25

<210> 463
<211> 24
<212> PRT
<213> Hepatitis C virus

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<400> 463
Ala Gly His Thr Arg Val Ser Gly Gly Ala Ala Ala Ser Asp Thr Arg
1 5 10 15
Gly Leu Val Ser Leu Phe Ser Glx
20

<210> 464
<211> 26
<212> PRT
<213> Hepatitis C virus

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<223> Xaa = modified site : when present, represents an amino acid, OH-group, NH₂-group, or a linkage involving these two groups

<400> 464

Ala Ala Ser Asp Thr Arg Gly Leu Val Ser Leu Phe Ser Pro Gly Ser
1 5 10 15

Ala Gln Lys Ile Gln Leu Val Asn Thr Glx
20 25

<210> 465

<211> 24

<212> PRT

<213> Hepatitis C virus

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<400> 465

Ala Gly His Thr Arg Val Thr Gly Gly Val Gln Gly His Val Thr Cys
1 5 10 15

Thr Leu Thr Ser Leu Phe Arg Glx
20

<210> 466

<211> 26

<212> PRT

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<400> 466
Ala Gly His Val Thr Cys Thr Leu Thr Ser Leu Phe Arg Pro Gly Ala
1 5 10 15
Ser Gln Lys Ile Gln Leu Val Asn Thr Glx
20 25

<210> 467
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<400> 467
Ala Gly His Thr His Val Thr Gly Gly Arg Val Ala Ser Ser Thr Gln
1 5 10 15
Ser Leu Val Ser Trp Leu Ser Glx
20

<210> 468
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<400> 468

Ala Ala Ser Ser Thr Gln Ser Leu Val Ser Trp Leu Ser Gln Gly Pro
1 5 10 15

Ser Gln Lys Ile Gln Leu Val Asn Thr Glx
20 25

<210> 469

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<400> 469

Ala Gly Asp Thr His Val Thr Gly Gly Ala Gln Ala Lys Thr Thr Asn
1 5 10 15

Arg Leu Val Ser Met Phe Ala Glx
20

<210> 470

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involving these two groups

<400> 470

Ala Ala Lys Thr Thr Asn Arg Leu Val Ser Met Phe Ala Ser Gly Pro
1 5 10 15

Ser Gln Lys Ile Gln Leu Ile Asn Thr Glx
20 25

<210> 471

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<213> Hepatitis C virus

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Gly Ile Val Arg Phe Phe Ala Glx
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<210> 472

<211> 26

<212> PRT

<213> Hepatitis C virus

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<400> 472

Ala Gly His Thr Met Thr Gly Ile Val Arg Phe Phe Ala Pro Gly Pro
1 5 10 15

Lys Gln Asn Val His Leu Ile Asn Thr Glx
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<210> 473

<211> 24

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Gly Leu Val Ser Leu Phe Thr Glx
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Gly Leu Val Ser Leu Phe Ser Glx
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1 5 10 15
Lys Gln Asp Ile Gln Leu Ile Asn Thr Glx
20 25

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<210> 567
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